NUS CORPORATION
SUPERFUND DIVISION

INTERNAL CORRESPONDENCE

C-583-6-6-116

TO: DON SMITH/EPA

DATE: JUNE 25, 1986

FROM: DIETER GEITHNER

COPIES: FILE

SUBJECT: PRELIMINARY ASSESSMENT FOR THE DAVE TOWERS STORAGE AREA LYNDONVILLE, VERMONT

TDD No. F1-8604-02
Reference No. $300VT12PA

INTRODUCTION

The NUS Field Investigation Team (NUS/FIT) was was requested by the Waste Management Division of the Region I, U.S. Environmental Protection Agency (EPA), to perform a Preliminary Assessment (PA) of the Dave Towers Storage Area in Lyndonville, Vermont, CERCLIS No. VTD981205875. This work was completed under Technical Directive Document number F1-8604-02 issued on April 1, 1986.

The Preliminary Assessment prepared within complies with the requirements set forth under EPA Superfund Legislation (CERCLA), however, it does not necessarily fulfill the requirements of other EPA regulations such as RCRA. The Preliminary Assessment is not intended to be a definitive study of the site suitable for use in planning remediation or undertaking enforcement actions against potential responsible parties. The PA represents the first step of a site screening process set forth by the National Contingency Plan (NCP).

SITE SUMMARY

On Thursday, April 17, 1986, a perimeter survey was conducted at the Dave Towers Storage Area during first round sampling for the Lyndonville Wells Field Investigation (TDD No. F1-8603-05). NUS/FIT personnel included Dieter Geithner (project manager), Larry Fitzgerald (geologist) and Jim Young (geologist). Also present during the perimeter survey was Tom Moye from the Vermont Agency of Environmental Conservation (VT AEC). Weather during this field activity was warm (approximately 70° Fahrenheit) with partly cloudy skies.

The issuance of this Preliminary Assessment is in conjuction with the ongoing Field Investigation on the Lyndonville Wells. The Lyndonville drinking water wells are contaminated with organic solvents such as trichloroethylene and dichloroethylene. In 1982 the total volatile organic contamination (TVO) in the water was 2.8 ppb. Total organics have since risen to 13.0 ppb in 1985 and if the TVO continues to rise, it may pose a health risk. The Dave Towers Storage Area was named as a potential contributor to the wellfield contamination and is the subject of this Preliminary Assessment (1, 6).

The Dave Towers Storage Area is an abandoned gravel pit which is owned by Bill Towers, and is used by his brother, Dave Towers, for the purpose of storing construction materials such as lumber and concrete. Some of these materials are stored in a 40 foot trailer on the site. There are several 55-gallon drums onsite used for burning. Bill Towers reported that no solvents or volatile organic compounds are used in this construction work (1).

Access to the site is gained near the rear of the Burke View Garage by an approximately 200 foot dirt road. There is no site security.

ENVIRONMENTAL SETTING

incorrect

The Dave Towers Storage Area is located approximately 2,000 feet to the ~~southwest~~ east of the Lyndonville Wellfield and less than 1,000 feet from the Passumpsic River. The site is bounded to the east, west, and south by pastures and fields while forest land is located to the north of the site. The wellfield serves 3,200 people and is currently the only source of water to the town of Lyndonville (1, 2, 3).

The underlying bedrock in this area, the Waits River formation, generally consists of limestone, phyllite, and schist. Outcrops occur occasionally at higher elevations where the bedrock is not overlain by till. Overburden in the area consists of post glacial fluvial sand and gravel (4, 5).

CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected for this Preliminary Assessment, it does not appear that the Dave Towers Storage Area is contributing to the wellfield contamination. This conclusion is based on the lack of evidence of volatile organic compounds used or disposed of onsite. Based on these findings, no further work is warranted at this site; however, should findings of the ongoing Lyndonville Wells Field Investigation (TDD F1-8602-05) suggest that the Dave Towers Storage Area site could be a potential source of contaminants, a site inspection should be undertaken.

DG/mth

cc: T. Centi/ZPMO

Comments received from T. Hoyle, VTDEC
letter of 7-16-86 DonSmith

Reviewed and Approved By: _____
R. DiNitto, RPM

Date: 6-26-86

REFERENCES

1. HRS Documentation Package: Darling Hill Dump, Lyndonville, Vermont, January 15, 1986.

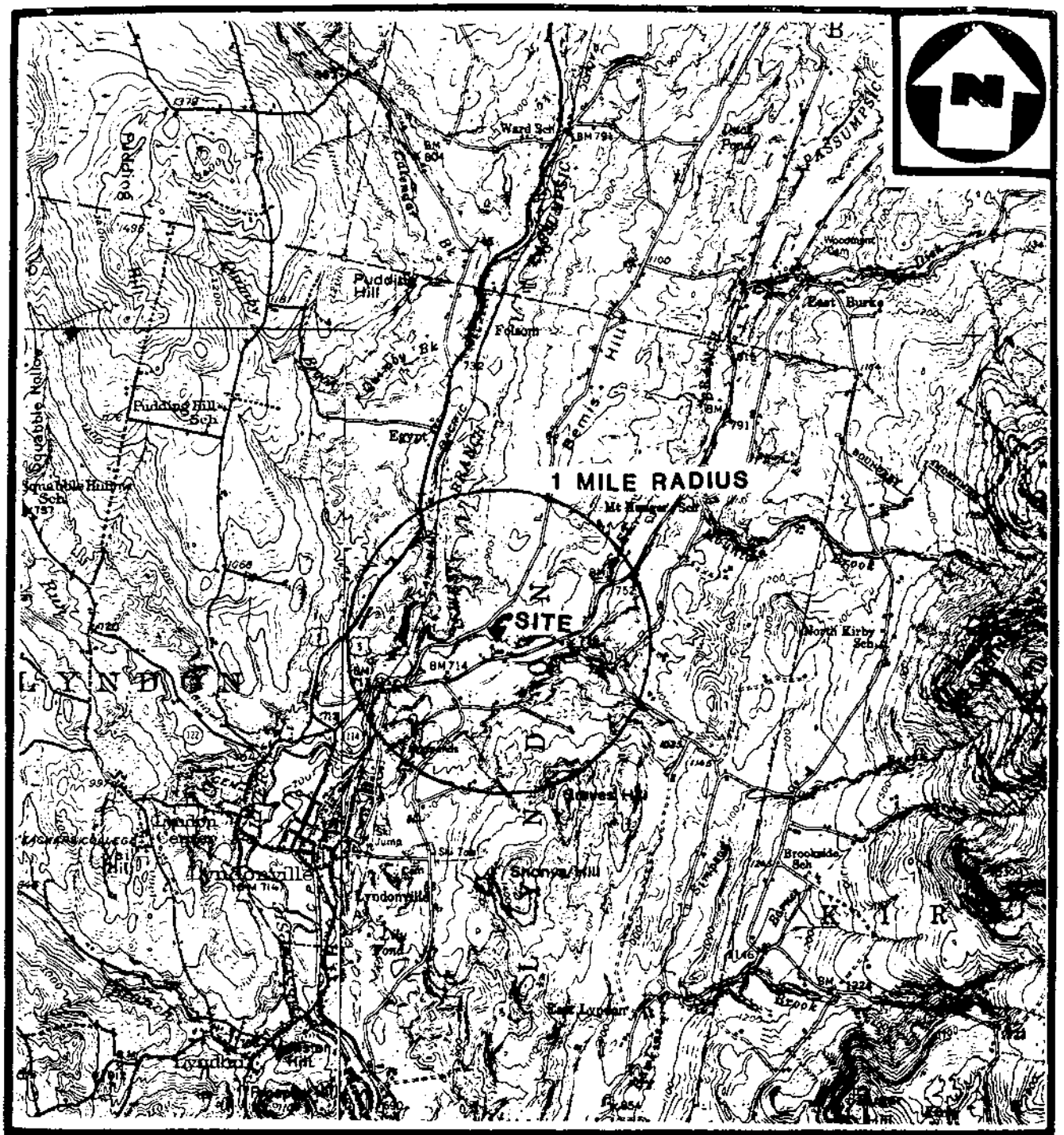
2. USGS Topographic Map Lyndonville, Vermont Quadrangle (1951) and Burke, Vermont Quadrangle (1951).

3. Vermont Base Map Aerial Photograph, Shonya Hill Map, Sheet Number 19224, Series 5,000, 1983.

4. Geologic Map of Vermont, Vermont Geologic Survey. 1970.

5. Surficial Geologic Map of Vermont, Vermont Geologic Survey, 1970.

6. Scope of Work for Lyndonville Wells Field Investigation, NUS, April 7, 1986.



BASE MAP IS A PORTION OF THE U.S.G.S. LYNDONVILLE QUADRANGLE (15' SERIES, 1951) AND BURKE QUADRANGLE (15' SERIES, 1951)

SCALE 1:62500

1 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 5 0 1 2 3 4 5 KILOMETERS

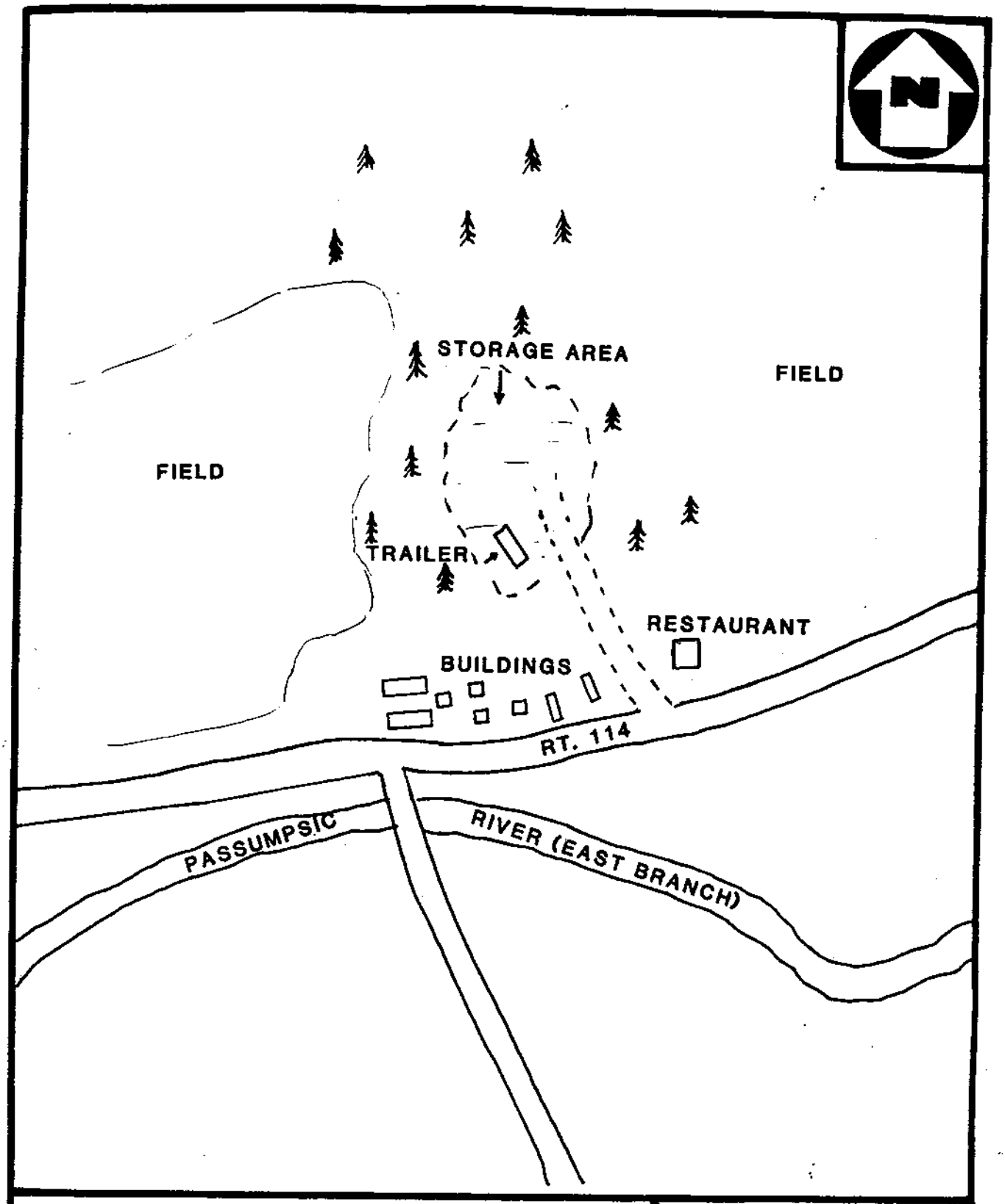
LOCUS PLAN

DAVE TOWERS STORAGE AREA
LYNDONVILLE, VERMONT

JUNE, 1986

NUS CORPORATION
A Halliburton Company

FIGURE 1



DAVE TOWERS STORAGE AREA
LYNDONVILLE, VT

JUNE 1986

NUS CORPORATION
A Halliburton Company

FIGURE 2

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
VT	VTD981205875

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Dave Towers Storage Area	Route 114

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lyndonville	VT	05851	Caledonia	005	01

09 COORDINATES LATITUDE	LONGITUDE
44 32 30 N	071 57 30 W

10 DIRECTIONS TO SITE (Starting from nearest public road)

Travel north on Rt. 93 to Rt. 91. Follow until Rt. 5. Take Rt. 5 through Lyndonville to Rt. 114. Follow Rt. 114 approximately 2 to 2 1/2 miles. Site located in the area to the rear of the Burke View Garage on the left side of the road.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Bill Towers	Rt. 114

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Lyndonville	VT	05851	(802) 626-5466

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Dave Towers	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☐ YES DATE ___/___/___ (MONTH DAY YEAR)
☒ NO

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION		
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	unknown (BEGINNING YEAR)	present (ENDING YEAR)	☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Chlorinated solvents may be present.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The Lyndonville wellfield is contaminated with chlorinated solvents and may be a threat to the town's only water supply, but are reportedly not used or disposed of on the site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency Organization)	03 TELEPHONE NUMBER
Tom Moye	VT AEC	802)828-3395

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Dieter Geithner	NUS	FIT	617)275-2970	06 12 86 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
VT	VTD981205875

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	unknown		1,1-dichloroethane and trichloroethylene are present in Lyndonville's supply wells but contaminants are not presently on site.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Vermont Agency of Environmental Conservation.
2. Darling Hill Dump HRS Documentation Package, Lyndonville, Vermont, 1/15/
   Scope of Work for Lyndonville Field Investigation, NUS, 4/7/86.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: VT	02 SITE NUMBER: VTD981205875

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 1985) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,200 — 04 NARRATIVE DESCRIPTION

The Lyndonville wellfield was sampled in 1985 and groundwater was found to be contaminated with chlorinated solvents such as 1,1-dichloroethane and trichloroethylene.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,200 — 04 NARRATIVE DESCRIPTION

The Passumpsic River is approximately 1,800 feet south of the site and approximately 200 feet northeast of the Lyndonville wellfield.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: (Acres) — 04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 1985) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,200 — 04 NARRATIVE DESCRIPTION

Routine sampling at the Lyndonville wells showed that total volatile organics in the water had risen from 2.8 ppm in 1982 to 13.0 ppb in 1985.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

If the total volatile organic compounds rises to an unhealthy level, the town of Lyndonville will have to either treat the water for organics or find an alternate water source.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
VT	VTD981205875

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Contamination may migrate along the food chain as the Passumpsic River is heavily fished.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*